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TITLE: Microelectromechanical beam for allowing a plate to rotate in relation to a

frame in a microelectromechanical device

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INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dhuler; Vijayakumar R.	Raleigh	NC	N/A	N/A
Koester; David A.	Burlington	NC	N/A	N/A
Walters; Mark D.	Durham	NC	N/A	N/A
Markus; Karen W.	Raleigh	NC	N/A	N/A

US-CL-CURRENT: 310/90,310/309 ,359/198

CLAIMS:

What is claimed is:

1. A microelectromechanical beam for supporting a plate and allowing the plate to rotate in relation to a frame, wherein said beam comprises:
a first end having an arched contact surface for contacting the frame;
and
an opposed end connected to the plate, such that the arched contact surface of said first end allows the plate to rotate in relation to the frame with reduced rotational torque.
2. A microelectromechanical beam according to claim 1, wherein said arched contact surface is spaced apart from the frame such that said arched contact surface only contacts the frame when a force is exerted on the plate pushing the plate toward the frame.
3. A microelectromechanical beam according to claim 1, wherein said arched contact surface is connected to said frame such that the plate and frame are connected, and wherein said arched contact surface allows the plate to rotate in relation to the frame with reduced rotational torque.
4. A microelectromechanical beam according to claim 1, wherein said arched contact surface of said beam is pointed.